

Amended Claims With Mark-ups to Show Changes Made

1. (Amended) A projection lens system, comprising:
a plurality of lenses, wherein at least one lens of the plurality of lenses comprises an aspherical surface; and
at least one diffractive optical element formed on at least one [among the surfaces] of the lenses.
2. (Amended) The projection lens system according to claim 1, wherein one surface of the diffractive optical element includes a [groove] plurality of grooves having a rotation symmetry on a spherical surface.
3. (Amended) The projection lens system according to claim 1, wherein one surface of the diffractive optical element includes a [groove] plurality of grooves having a rotation symmetry on a plane surface.
8. (Amended) A projection lens system, comprising:
a plurality of refractive lenses, wherein at least one lens comprises an aspherical surface;
and
at least one diffractive optical element formed on at least one [among the faces] of the refractive lenses to correct chromatic aberrations at on axis and off axis.

9. (Amended) The projection lens system according to claim 8, wherein one surface of the diffractive optical element includes a [groove] plurality of grooves having a rotation symmetry on a spherical surface.

10. (Amended) The projection lens system according to claim 8, wherein one surface of the diffractive optical element includes a [groove] plurality of grooves having a rotation symmetry on a plane surface.

16. (Amended) The projection lens system according to claim 15, wherein the first lens has one surface formed with diffractive optical elements thereon and a second surface with an [a side of] aspherical surface [and another side of diffractive optical surface].

Clean Set of Amended Claims

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1. (Amended) A projection lens system, comprising:
a plurality of lenses, wherein at least one lens of the plurality of lenses comprises an aspherical surface; and
at least one diffractive optical element formed on at least one of the lenses.

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2. (Amended) The projection lens system according to claim 1, wherein one surface of the diffractive optical element includes a plurality of grooves having a rotation symmetry on a spherical surface.

3. (Amended) The projection lens system according to claim 1, wherein one surface of the diffractive optical element includes a plurality of grooves having a rotation symmetry on a plane surface.

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8. (Amended) A projection lens system, comprising:
a plurality of refractive lenses, wherein at least one lens comprises an aspherical surface;
and
at least one diffractive optical element formed on at least one of the refractive lenses to correct chromatic aberrations at on axis and off axis.

9. (Amended) The projection lens system according to claim 8, wherein one surface of the diffractive optical element includes a plurality of grooves having a rotation symmetry on a spherical surface.

10. (Amended) The projection lens system according to claim 8, wherein one surface of the diffractive optical element includes a plurality of grooves having a rotation symmetry on a plane surface.

16. (Amended) The projection lens system according to claim 15, wherein the first lens has one surface formed with diffractive optical elements thereon and a second surface with an aspherical surface.

B. Please add new claims 38-53 as follows:

~~41~~ 38. (New) The projection lens system according to claim 1, wherein the plurality of lenses comprises:

a first lens having a positive refractive power at a center region and a negative refractive power at the peripheral thereof;

a second lens having a positive refractive power;

a third lens having a positive refractive power; and

a fourth lens having a negative refractive power.

~~42~~ 39. (New) The projection lens system according to claim 38, wherein a plurality of recesses with a shape of concentric circles are provided at the diffractive optical element in such a manner to have a rotational symmetry.

~~43~~ 40. (New) The projection lens system according to claim 39, wherein pitches of said recesses are decreased in such a manner that a phase amount is reduced as it goes from the center of the diffractive optical element into the peripheral thereof.

~~44~~ 41. (New) The projection lens system according to claim 1, wherein a least one of the lenses comprises a spherical surface.

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~~45~~ 42. (New) The projection lens system according to claim 1, wherein the at least one lens with the aspherical surface comprises a plastic material.

~~46~~ 43. (New) The projection lens system according to claim 1, wherein the aspherical surface of the at least one lens corrects a spherical aberration.

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~~47~~ 44. (New) The projection lens system according to claim 1, wherein at least one of the plurality of lenses comprises a glass material for the majority of refractive power in the projection lens system.

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~~48~~ 45. (New) The projection lens system according to claim 1, wherein at least one of the plurality of lenses comprises a lens for correcting a field curvature and an astigmatism.

~~49~~ 46. (New) The projection lens system according to claim 8, wherein a least one of the lenses comprises a spherical surface.

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~~50~~ 47. (New) The projection lens system according to claim 8, wherein the at least one lens with the aspherical surface comprises a plastic material.

~~51~~ 48. (New) The projection lens system according to claim ~~47~~⁸⁰, wherein at least one of the plurality of lenses comprises a glass material for the majority of refractive power in the projection lens system.

~~50~~ 49. (New) The projection lens system according to claim 8, wherein the aspherical surface of the at least one lens corrects a spherical aberration.

~~53~~ 50. (New) The projection lens system according to claim 8, wherein at least one of the plurality of lenses comprises a glass material for the majority of refractive power in the projection lens system.) 7

~~54~~ 51. (New) The projection lens system according to claim 8, wherein at least one of the plurality of lenses comprises a lens for correcting a field curvature and an astigmatism.

~~55~~ 52. (New) A projection lens system, comprising:
a plurality of lenses; and
at least one diffractive optical element formed on at least one aspherical surface of at least one of the plurality of lenses.

~~56~~ 53. (New) The projection lens system according to claim ~~52~~⁵⁵, wherein the lenses are refractive lenses and at least one the aspherical surface corrects chromatic aberrations at on axis and off axis.